

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|--------------------------------|------------------|
| 1 | 8144 | in adj1 vitro adj1 recombination or shuffling | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:32 |
| 2 | 2404 | (in adj1 vitro adj1 recombination or shuffling) and phenotype | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:32 |
| 3 | 1354 | ((in adj1 vitro adj1 recombination or shuffling) and phenotype) and mismatch | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:32 |
| 4 | 1300 | ((((in adj1 vitro adj1 recombination or shuffling) and phenotype) and mismatch) and hybrid | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:32 |
| 5 | 517 | ((((in adj1 vitro adj1 recombination or shuffling) and phenotype) and mismatch) and hybrid) and recover | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:48 |
| 6 | 8106 | DNA adj1 fragments near5 reassembly or shuffling | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:49 |
| 7 | 103 | (DNA adj1 fragments near5 reassembly or shuffling) and mismatch adj1 hybrid | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:50 |
| 8 | 4143 | (DNA adj1 fragments near5 reassembly or shuffling) and hybrid | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:50 |
| 9 | 1662 | ((DNA adj1 fragments near5 reassembly or shuffling) and hybrid) and mismatch | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:50 |
| 10 | 1299 | ((((DNA adj1 fragments near5 reassembly or shuffling) and hybrid) and mismatch) and phenotype | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:51 |
| 11 | 850 | ((((DNA adj1 fragments near5 reassembly or shuffling) and hybrid) and mismatch) and phenotype) and mixing | USPAT; US-PGPUB; DERWENT | 2004/03/10 17:51 |

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| NEWS | 4 | DEC 08 | INPADOC: Legal Status data reloaded |
| NEWS | 5 | SEP 29 | DISSABS now available on STN |
| NEWS | 6 | OCT 10 | PCTFULL: Two new display fields added |
| NEWS | 7 | OCT 21 | BIOSIS file reloaded and enhanced |
| NEWS | 8 | OCT 28 | BIOSIS file segment of TOXCENTER reloaded and enhanced |
| NEWS | 9 | NOV 24 | MSDS-CCOHS file reloaded |
| NEWS | 10 | DEC 08 | CABA reloaded with left truncation |
| NEWS | 11 | DEC 08 | IMS file names changed |
| NEWS | 12 | DEC 09 | Experimental property data collected by CAS now available in REGISTRY |
| NEWS | 13 | DEC 09 | STN Entry Date available for display in REGISTRY and CA/CAPLUS |
| NEWS | 14 | DEC 17 | DGENE: Two new display fields added |
| NEWS | 15 | DEC 18 | BIOTECHNO no longer updated |
| NEWS | 16 | DEC 19 | CROPU no longer updated; subscriber discount no longer available |
| NEWS | 17 | DEC 22 | Additional INPI reactions and pre-1907 documents added to CAS databases |
| NEWS | 18 | DEC 22 | IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields |
| NEWS | 19 | DEC 22 | ABI-INFORM now available on STN |
| NEWS | 20 | JAN 27 | Source of Registration (SR) information in REGISTRY updated and searchable |
| NEWS | 21 | JAN 27 | A new search aid, the Company Name Thesaurus, available in CA/CAPLUS |
| NEWS | 22 | FEB 05 | German (DE) application and patent publication number format changes |
| NEWS | 23 | MAR 03 | MEDLINE and LMEDLINE reloaded |
| NEWS | 24 | MAR 03 | MEDLINE file segment of TOXCENTER reloaded |
| NEWS | 25 | MAR 03 | FRANCEPAT now available on STN |
| NEWS EXPRESS | | | MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004 |
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=> s heteroduplex or hybrid (1a) DNA
L1 25230 HETERODUPLEX OR HYBRID (1A) DNA

=> s l1 and shuffling or recombination or reassembly
L2 277263 L1 AND SHUFFLING OR RECOMBINATION OR REASSEMBLY

=> s l1 and l2
L3 3072 L1 AND L2

=> s l3 and mutation or mismatch
L4 61227 L3 AND MUTATION OR MISMATCH

=> s l3 and l4
L5 1246 L3 AND L4

=> s l5 and phenotype
L6 125 L5 AND PHENOTYPE

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L7 57 DUP REM L6 (68 DUPLICATES REMOVED)

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2 FILES SEARCHED...
L8 41 L7 AND PY<=1998

=> d l8 1-41, ti so au

L8 ANSWER 1 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI The yeast HSM3 gene acts in one of the **mismatch** repair pathways.
SO Genetics, (March, 1998) Vol. 148, No. 3, pp. 963-973. print.
CODEN: GENTAE. ISSN: 0016-6731.
AU Fedorova, Irina V.; Gracheva, Ludmila M.; Kovaltzova, Svetlana V.;
Evstuhina, Tatyana A.; Alekseev, Sergey Yu.; Korolev, Vladimir G. [Reprint
author]

L8 ANSWER 2 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Barriers to **recombination** between closely related bacteria: MutS
 and RecBCD inhibit **recombination** between Salmonella typhimurium
 and Salmonella typhi.
 SO Proceedings of the National Academy of Sciences of the United States of
 America, (1997) Vol. 94, No. 18, pp. 9786-9791.
 CODEN: PNASA6. ISSN: 0027-8424.
 AU Zahrt, Thomas C.; Maloy, Stanley [Reprint author]

L8 ANSWER 3 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI **Mismatch** repair in Schizosaccharomyces pombe requires the mutL
 homologous gene pms1: Molecular cloning and functional analysis.
 SO Genetics, (1997) Vol. 146, No. 4, pp. 1275-1286.
 CODEN: GENTAE. ISSN: 0016-6731.
 AU Schar, Primo [Reprint author]; Baur, Michel; Schneider, Claudine; Kohli,
 Juerg

L8 ANSWER 4 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI The mmsA locus of Streptococcus pneumoniae encodes a RecG-like protein
 involved in DNA repair and in three-strand **recombination**.
 SO Molecular Microbiology, (1996) Vol. 19, No. 5, pp. 1035-1045.
 CODEN: MOMIEE. ISSN: 0950-382X.
 AU Martin, Bernard; Sharples, Gary J.; Humbert, Odile; Lloyd, Robert G.;
 Claverys, Jean-Pierre [Reprint author]

L8 ANSWER 5 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Dominant negative mutator **mutations** in the mutS gene of
 Escherichia coli.
 SO Journal of Bacteriology, (1994) Vol. 176, No. 17, pp. 5393-5400.
 CODEN: JOBAAY. ISSN: 0021-9193.
 AU Wu, T.-H.; Marinus, M. G. [Reprint author]

L8 ANSWER 6 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Interactions between **mismatch** repair and genetic
recombination in Saccharomyces cerevisiae.
 SO Genetics, (1994) Vol. 137, No. 1, pp. 19-39.
 CODEN: GENTAE. ISSN: 0016-6731.
 AU Alani, Eric [Reprint author]; Reenan, Robert A. G.; Kolodner, Richard D.

L8 ANSWER 7 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Dual requirement in yeast DNA **mismatch** repair for MLH1 and PMS1,
 two homologs of the bacterial mutL gene.
 SO Molecular and Cellular Biology, (1994) Vol. 14, No. 1, pp. 407-415.
 CODEN: MCEBD4. ISSN: 0270-7306.
 AU Prolla, Tomas A.; Christie, Donna-Marie; Liskay, Robert Michael [Reprint
 author]

L8 ANSWER 8 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI **MISMATCH** REPAIR GENES OF STREPTOCOCCUS-PNEUMONIAE HEXA CONFERS A
 MUTATOR **PHENOTYPE** IN ESCHERICHIA-COLI BY NEGATIVE
 COMPLEMENTATION.
 SO Journal of Bacteriology, (1991) Vol. 173, No. 22, pp. 7196-7203.
 CODEN: JOBAAY. ISSN: 0021-9193.
 AU PRUDHOMME M [Reprint author]; MEJEAN V; MARTIN B; CLAVERYS J-P

L8 ANSWER 9 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI NUCLEOTIDE SEQUENCE OF THE STREPTOCOCCUS-PNEUMONIAE HEX-B **MISMATCH**
 REPAIR GENE HOMOLOGY OF HEX-B TO MUT-L OF SALMONELLA-TYPHIMURIUM AND TO
 PMS1 OF SACCHAROMYCES-CEREVISIAE.
 SO Journal of Bacteriology, (1989) Vol. 171, No. 10, pp. 5332-5338.
 CODEN: JOBAAY. ISSN: 0021-9193.
 AU PRUDHOMME M [Reprint author]; MARTIN B; MEJEAN V; CLAVERYS J-P

L8 ANSWER 10 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI GENETIC AND MOLECULAR ANALYSIS OF **RECOMBINATION** EVENTS IN
 SACCHAROMYCES-CEREVISIAE OCCURRING IN THE PRESENCE OF THE HYPER-
RECOMBINATION MUTATION HPR-1.
 SO Genetics, (1989) Vol. 122, No. 3, pp. 503-518.
 CODEN: GENTAE. ISSN: 0016-6731.
 AU AGUILERA A [Reprint author]; KLEIN H L

L8 ANSWER 11 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI SPECIFICITY OF **MISMATCH** REPAIR FOLLOWING TRANSFORMATION OF
 SACCHAROMYCES-CEREVISIAE WITH **HETERODUPLEX** PLASMID DNA.
 SO Proceedings of the National Academy of Sciences of the United States of
 America, (1989) Vol. 86, No. 10, pp. 3713-3717.
 CODEN: PNASA6. ISSN: 0027-8424.
 AU BISHOP D K [Reprint author]; ANDERSEN J; KOLODNER R D

L8 ANSWER 12 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI MEIOTIC GENE CONVERSION MUTANTS IN SACCHAROMYCES-CEREVISIAE 1. ISOLATION
 AND CHARACTERIZATION OF PMS-1-1 AND PMS-1-2.
 SO Genetics, (1985) Vol. 110, No. 4, pp. 609-646.
 CODEN: GENTAE. ISSN: 0016-6731.
 AU WILLIAMSON M S [Reprint author]; GAME J C; FOGEL S

L8 ANSWER 13 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI EFFICIENT CORRECTION OF MISMATCHED BASES IN PLASMID **HETERODUPLEXES**
 INJECTED INTO CULTURED MAMMALIAN CELL NUCLEI.
 SO Molecular and Cellular Biology, (1985) Vol. 5, No. 1, pp. 70-74.
 CODEN: MCEBD4. ISSN: 0270-7306.
 AU FOLGER K R [Reprint author]; THOMAS K; CAPECCHI M R

L8 ANSWER 14 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI FINE STRUCTURE OF THE 21S RIBOSOMAL RNA REGION ON YEAST MITOCHONDRIAL DNA
 4. CHARACTERIZATION OF THE OMEGA NEUTRAL ALLELE.
 SO Molecular and General Genetics, (1981) Vol. 181, No. 4, pp. 420-423.
 CODEN: MGGEAE. ISSN: 0026-8925.
 AU BOS J L [Reprint author]

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 on STN
 TI Processing of **recombination** intermediates by the RuvABC
 proteins.
 SO Annual Review of Genetics, (1997) 31/- (213-244).
 Refs: 202
 ISSN: 0066-4197 CODEN: ARVGB7
 AU West S.C.

L8 ANSWER 16 OF 41 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
 on STN
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 SO Current Genetics, (1994) 25/1 (1-11).
 ISSN: 0172-8083 CODEN: CUGED5
 AU Esposito M.S.; Rarmirez R.M.; Bruschi C.V.

L8 ANSWER 17 OF 41 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
 on STN
 TI Translocation of a plasmid DNA sequence which mediates ampicillin
 resistance: molecular nature and specificity of insertion.
 SO Proceedings of the National Academy of Sciences of the United States of
 America, (1975) 72/9 (3623-3627).
 CODEN: PNASA6
 AU Heffron F.; Rubens C.; Falkow S.

L8 ANSWER 18 OF 41 MEDLINE on STN
 TI Gene-conversion tract directionality is influenced by the chromosome

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SO Current genetics, (1998 Oct) 34 (4) 269-79.
Journal code: 8004904. ISSN: 0172-8083.

AU Cho J W; Khalsa G J; Nickoloff J A

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SO Molecular and cellular biology, (1997 Jun) 17 (6) 3382-7.
Journal code: 8109087. ISSN: 0270-7306.

AU Miret J J; Pessoa-Brandao L; Lahue R S

L8 ANSWER 20 OF 41 MEDLINE on STN

TI **Mismatch** repair in replication fidelity, genetic **recombination**, and cancer biology.

SO Annual review of biochemistry, (1996) 65 101-33. Ref: 225
Journal code: 2985150R. ISSN: 0066-4154.

AU Modrich P; Lahue R

L8 ANSWER 21 OF 41 MEDLINE on STN

TI Alterations to the primer grip of p66 HIV-1 reverse transcriptase and their consequences for template-primer utilization.

SO Biochemistry, (1996 Jul 2) 35 (26) 8553-62.
Journal code: 0370623. ISSN: 0006-2960.

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TI *Escherichia coli* RecG and RecA proteins in R-loop formation.

SO EMBO journal, (1995 May 15) 14 (10) 2385-92.
Journal code: 8208664. ISSN: 0261-4189.

AU Hong X; Cadwell G W; Kogoma T

L8 ANSWER 23 OF 41 MEDLINE on STN

TI Polycystic ovaries and premature male pattern baldness are associated with one allele of the steroid metabolism gene CYP17.

SO Human molecular genetics, (1994 Oct) 3 (10) 1873-6.
Journal code: 9208958. ISSN: 0964-6906.

AU Carey A H; Waterworth D; Patel K; White D; Little J; Novelli P; Franks S; Williamson R

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TI **Mismatch** repair of **heteroduplex** DNA intermediates of extrachromosomal **recombination** in mammalian cells.

SO Molecular and cellular biology, (1994 Jan) 14 (1) 400-6.
Journal code: 8109087. ISSN: 0270-7306.

AU Deng W P; Nickoloff J A

L8 ANSWER 25 OF 41 MEDLINE on STN

TI Biochemical and biological function of *Escherichia coli* RecA protein: behavior of mutant RecA proteins.

SO Biochimie, (1991 Feb-Mar) 73 (2-3) 289-304. Ref: 109
Journal code: 1264604. ISSN: 0300-9084.

AU Kowalczykowski S C

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TI DNA **mismatch** repair detected in human cell extracts.

SO Molecular and cellular biology, (1987 Jan) 7 (1) 218-24.
Journal code: 8109087. ISSN: 0270-7306.

AU Glazer P M; Sarkar S N; Chisholm G E; Summers W C

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TI Replication mutants of the F-plasmid of *Escherichia coli* K-12. I. Isolation and characterization of temperature-sensitive replication mutants of F'-gal+.

SO Plasmid, (1980 Mar) 3 (2) 165-78.
Journal code: 7802221. ISSN: 0147-619X.

AU Bergquist P L; Jamieson A F; Gardner R C; Lane D

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SO Virology, (1985 Jan 30) 140 (2) 313-27.
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AU Mozola M A; Friedman D I

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AU Nicolas A; Rossignol J L

L8 ANSWER 30 OF 41 MEDLINE on STN

TI [Genetic instability of the production of antibiotic substances controlled by the SCP2 plasmid of Streptomyces coelicolor A3(2)]. Geneticheskaya nestabil'nost' produktsii antibioticheskikh veshchestv, kontroliruemoi SCP2-plazmidoi Streptomyces coelicolor A3(2).

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Journal code: 0047354. ISSN: 0016-6758.

AU Danilenko V N; Pel'ts L B; Fedorenko V A; Biriukova I V

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SO Molecular & general genetics : MGG, (1981) 183 (2) 252-63.
Journal code: 0125036. ISSN: 0026-8925.

AU Golin J E; Esposito M S

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Journal code: 0125036. ISSN: 0026-8925.

AU Morita T; Ichikawa N; Yamaguchi T; Matsushiro A

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TI Evidence for a physical interaction between the transposed and the substituted sequences during mating type gene transposition in yeast.

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AU Klar A J; McIndoo J; Strathern J N; Hicks J B

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SO Molecular & general genetics : MGG, (1980 Apr) 178 (1) 191-201.
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AU Claverys J P; Roger M; Sicard A M

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TI **Heteroduplex** analysis of regulatory **mutations** and of insertions (IS1, IS2, IS5) in the bipolar argECBH operon of Escherichia coli.

SO Molecular & general genetics : MGG, (1978 May 3) 161 (2) 175-84.
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AU Charlier D; Crabeel M; Palchaudhuri S; Cunin R; Boyen A; GLANSDORFF N

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 SO Genetics, (1975 Sep) 81 (1) 33-50.
 Journal code: 0374636. ISSN: 0016-6731.
 AU White R; Fox M S

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 AU Nevers P; Spatz H C

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 SO HUM. MOL. GENET., (1992) vol. 1, no. 9, pp. 769-771.
 AU Farrar, G.J.; Findlay, J.B.C.; Kumar-Singh, R.; Kenna, P.; Humphries,
 M.M.; Sharpe, E.; Humphries, P.

L8 ANSWER 39 OF 41 LIFESCI COPYRIGHT 2004 CSA on STN
 TI Virus genetics.
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 AU Philipson, L.; Lycke, E. [editor]; Norrby, E. [editor]

L8 ANSWER 40 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN
 TI The mutator gene swi8 effects specific **mutations** in the
 mating-type region of Schizosaccharomyces pombe
 SO Genetics (1994), 138(3), 621-32
 CODEN: GENTAE; ISSN: 0016-6731
 AU Fleck, Oliver; Rudolph, Claudia; Albrecht, Andre; Lorentz, Axel; Schaer,
 Primo; Schmidt, Henning

L8 ANSWER 41 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN
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 coelicolor A3(2) actinophage .vphi.C31 defective in lysogenization
 SO Genetika (Moscow) (1981), 17(11), 1967-74
 CODEN: GNKAA5; ISSN: 0016-6758
 AU Vasil'chenko, L. G.; Mkrtumyan, N. M.; Lomovskaya, N. D.